

# WEST Search History

DATE: Monday, March 25, 2002

## Set Name Query side by side

## Hit Count Set Name result set

*DB=USPT,PGPB; PLUR=YES; OP=ADJ*

L8 11 and 12 and 15 and 17

6 L8

L7 loft\$2 same web and x\$1 same y\$1 same z\$1 and  
directions

76 L7

L6 11 and 12 and 13 and 15

6 L6

L5 plurality same ridges and surfaces

16313 L5

L4 L3

400 L4

L3 z\$1direction same orientation

400 L3

L2 plurality and continuous same (fibers or fibres)

18644 L2

L1 (non\$1woven or un\$1woven) and web

14605 L1

END OF SEARCH HISTORY

**Set Name Query**

side by side

*DB=USPT,PGPB,DWPI; PLUR=YES; OP=ADJ*L7 l1 and l2 and l4 and l6L6 loft\$2 same web and x\$1 same y\$1 same z\$1 and  
directionsL5 l1 and l2 and l3 and l4L4 plurality same loops and surfacesL3 z\$1 direction same orientationL2 plurality and continuous same (fibers or fibres)L1 (non\$1woven or un\$1woven) and web**Hit Count Set Name**  
result set2 L794 L63 L529086 L41521 L322130 L223024 L1

END OF SEARCH HISTORY

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 6 of 6 returned.**☐ 1. Document ID: US 20010054777 A1

L8: Entry 1 of 6

File: PGPB

Dec 27, 2001

PGPUB-DOCUMENT-NUMBER: 20010054777

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010054777 A1

TITLE: Materials having z-direction fibers and folds and method for producing same

PUBLICATION-DATE: December 27, 2001

## INVENTOR-INFORMATION:

| NAME                    | CITY       | STATE | COUNTRY | RULE-47 |
|-------------------------|------------|-------|---------|---------|
| White, Edward Jason     | Mauldin    | SC    | US      |         |
| Brown, Kurtis Lee       | Alpharetta | GA    | US      |         |
| Conrad, John Herbert    | Alpharetta | GA    | US      |         |
| Gerndt, Robert James    | Roswell    | GA    | US      |         |
| Maldonado, Jose Enrique | Alpharetta | GA    | US      |         |

US-CL-CURRENT: 264/103; 156/148, 156/176, 156/180, 264/171.1

## ABSTRACT:

A method for producing a material having z-direction ridges or folds in which a layer of continuous fibers is conveyed on a first moving surface into a nip formed by the first moving surface and a second moving surface which is traveling at a slower speed than the first moving surface, resulting in formation of a plurality of z-direction loops in the fibers giving loft to the material and a wave pattern producing ridges on both major surfaces of the resultant nonwoven web. The method permits easy real time adjustment of manufacturing parameters to produce a variety of materials. The method further produces lofty nonwovens at a commercially viable rate.

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[Full](#) [Draw Desc](#) [Image](#)☒ 2. Document ID: US 6316688 B1

L8: Entry 2 of 6

File: USPT

Nov 13, 2001

US-PAT-NO: 6316688

DOCUMENT-IDENTIFIER: US 6316688 B1

TITLE: Sanitary napkin comprising three dimensionally shaped tube  
of absorbent material

DATE-ISSUED: November 13, 2001

## INVENTOR-INFORMATION:

| NAME                     | CITY         | STATE | ZIP CODE | COUNTRY |
|--------------------------|--------------|-------|----------|---------|
| Hammons; John Lee        | Hamilton     | OH    |          |         |
| McFall; Ronald Ray       | West Chester | OH    |          |         |
| Noel; John Richard       | Cincinnati   | OH    |          |         |
| Gann; Diana Lynne        | Lebanon      | OH    |          |         |
| Hines; Letha Margie      | Cincinnati   | OH    |          |         |
| Grandison; Kevin Eugene  | Caracas      |       |          | VEX     |
| Osborn, III; Thomas Ward | Cincinnati   | OH    |          |         |

US-CL-CURRENT: 604/378; 604/385.01, 604/385.17

## ABSTRACT:

A sanitary napkin that has a three dimensionally-shaped tube of absorbent material and method of making the same is disclosed. The sanitary napkin comprises: a base pad having a body-facing side, a garment-facing side, and a longitudinal centerline. A tube of absorbent material extends outward from the body-facing side of the base pad and is aligned along the longitudinal centerline of the base pad. In one embodiment, the tube of absorbent material comprises an absorbent material and a cover at least partially wrapping the absorbent material. In this embodiment, the absorbent material is penetrated by autogenous bonds that join one portion of the cover to an opposing portion of the cover. The bonds are selectively placed to provide the tube of absorbent material with a distinct three-dimensional shape.

24 Claims, 34 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 15

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|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
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| FWMC | Draw Desc | Image |
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☒ 3. Document ID: US 6183587 B1

L8: Entry 3 of 6

File: USPT

Feb 6, 2001

US-PAT-NO: 6183587

DOCUMENT-IDENTIFIER: US 6183587 B1

TITLE: Method of making sanitary napkin comprising three dimensionally shaped tube of absorbent material

DATE-ISSUED: February 6, 2001

INVENTOR-INFORMATION:

| NAME               | CITY         | STATE | ZIP CODE | COUNTRY |
|--------------------|--------------|-------|----------|---------|
| McFall; Ronald Ray | West Chester | OH    |          |         |
| Hammons; John Lee  | Hamilton     | OH    |          |         |
| Gann; Diana Lynn   | Lebanon      | OH    |          |         |
| Noel; John Richard | Cincinnati   | OH    |          |         |

US-CL-CURRENT: 156/201; 156/202, 156/204, 156/216, 156/227,  
156/269, 156/270, 156/290, 156/292, 156/308.2, 156/308.4, 156/73.1,  
604/367, 604/385.01

ABSTRACT:

The method of making a shaped tube of absorbent material for the sanitary napkin, in one embodiment, involves the steps of: (a) providing a web of absorbent material, the web of absorbent material having a length, a width, a longitudinal centerline oriented in the direction of the length of the web of absorbent material, a first surface and an opposed second surface; (b) providing a cover for the first and second surfaces of the web of absorbent material; (c) at least partially covering the first and second surfaces of the web of absorbent material with the cover to form a composite web having longitudinal side margins; (d) folding the composite web at least once with folds defining fold lines that are arranged about the longitudinal centerline of the web of absorbent material; and (e) autogenously bonding a portion of the cover that covers the first surface of the web of absorbent material to a portion of the cover that covers an opposing portion of the second surface of the web of absorbent material.

8 Claims, 54 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 15

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|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
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| PMAC | Draw Desc | Image |
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☒ 4. Document ID: US 5888607 A

L8: Entry 4 of 6

File: USPT

Mar 30, 1999

US-PAT-NO: 5888607

DOCUMENT-IDENTIFIER: US 5888607 A

TITLE: Soft loop laminate and method of making

DATE-ISSUED: March 30, 1999

## INVENTOR-INFORMATION:

| NAME            | CITY     | STATE | ZIP CODE | COUNTRY |
|-----------------|----------|-------|----------|---------|
| Seth; Jayshree  | Woodbury | MN    |          |         |
| Rogers; John J. | St. Paul | MN    |          |         |

US-CL-CURRENT: 428/92; 428/101, 428/95, 428/97, 428/99

## ABSTRACT:

There is provided a soft nonwoven fibrous loop material for use in hook and loop fastening systems. The nonwoven fibrous loop material of the invention contains an open fibrous loop layer comprised predominately of polypropylene polymer, copolymer or blend fibers. The nonwoven fibrous loop layer material is autogeneously bonded to a backing layer formed of polypropylene polymers or copolymers having a percent isotacticity of less than 70%, optionally with additional layers present provided so that the overall nonwoven fibrous loop material is a laminate having a circular bend stiffness of less than about 9 Newton and having tensile strength of at least 1500 g/2.54 cm-width.

40 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

|      |       |          |       |        |                |      |            |           |             |
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| Full | Title | Citation | Front | Review | Classification | Date | References | Sequences | Attachments |
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| MM | Draw Desc | Image |
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☒ 5. Document ID: US 5797894 A

L8: Entry 5 of 6

File: USPT

Aug 25, 1998

US-PAT-NO: 5797894

DOCUMENT-IDENTIFIER: US 5797894 A

TITLE: Unitized sanitary napkin

DATE-ISSUED: August 25, 1998

## INVENTOR-INFORMATION:

| NAME           | CITY        | STATE | ZIP CODE | COUNTRY |
|----------------|-------------|-------|----------|---------|
| Cadieux; Serge | Pierrefonds |       |          | CAX     |
| Levesque; Yvon | Montreal    |       |          | CAX     |

US-CL-CURRENT: 604/378

## ABSTRACT:

This invention relates to a novel absorbent structure and absorbent products containing this absorbent structure. More particularly, the absorbent structure of this invention contains a high-loft, bulky, low-density cover layer, a higher density transfer layer, a very high density, retentive reservoir layer and an impermeable

barrier layer. The cover and barrier layers are sealed around their periphery and, preferably, all the layers are bonded to each other to form a unitized structure.

16 Claims, 9 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 4

Full Title Citation Front Review Classification Date Reference Sequences Attachments

WWW Draw Desc Image

☒ 6. Document ID: US 5374260 A

L8: Entry 6 of 6

File: USPT

Dec 20, 1994

US-PAT-NO: 5374260  
DOCUMENT-IDENTIFIER: US 5374260 A

TITLE: Unitized sanitary napkin

DATE-ISSUED: December 20, 1994

INVENTOR-INFORMATION:

| NAME                  | CITY      | STATE | ZIP CODE | COUNTRY |
|-----------------------|-----------|-------|----------|---------|
| Lemay; Martin         | Montreal  |       |          | CAX     |
| Lariviere; Christiane | Lavaltrie |       |          | CAX     |
| Comeau; Daniel        | Lachenaie |       |          | CAX     |
| Levesque; Yvon        | Montreal  |       |          | CAX     |

US-CL-CURRENT: 604/378; 604/358, 604/367, 604/371, 604/379,  
604/380, 604/385.04

ABSTRACT:

This invention relates to a novel absorbent structure and absorbent products containing this absorbent structure. More particularly, the absorbent structure of this invention is a flexible and retentive reservoir layer comprising a perf-embossed or tenderized peat board material.

8 Claims, 9 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 4

Full Title Citation Front Review Classification Date Reference Sequences Attachments

WWW Draw Desc Image

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has a first surface which defines the paper-contacting side of the belt, a second surface opposite the first surface, and conduits which extend between first and second surfaces of the belt. The first surface of the framework has a paper side network formed therein which defines the conduits. The second surface of the framework has a backside network with passageways that provide surface texture irregularities in the backside network. The papermaking belt is made by casting a photosensitive resinous material over and through the reinforcing structure while the reinforcing structure travels over a textured surface, and then exposing the photosensitive resinous material to light of an activating wavelength through a mask which has transparent and opaque regions. A process for making paper products is also disclosed which involves applying a fluid pressure differential from a vacuum source through the belt to a partially-formed embryonic web of papermaking fibers. The fibers in the embryonic web are deflected into the conduits of the papermaking belt by the vacuum pressure while the papermaking belt and the embryonic web travel over the vacuum source. Following the deflection, the paper web is impressed with the paper side network of the belt, and dried to form the final product.

20 Claims, 55 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 24

Full Title Citation Front Review Classification Date Reference Sequences Attachments

PMAC Draw Desc Image

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| Term                                 | Documents |
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| (3 AND 2 AND 5 AND 1).USPT,PGPB.     | 6         |
| (L1 AND L2 AND L3 AND L5).USPT,PGPB. | 6         |

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| Term                                 | Documents |
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| (7 AND 2 AND 5 AND 1).USPT,PGPB.     | 6         |
| (L1 AND L2 AND L5 AND L7).USPT,PGPB. | 6         |

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**WEST**

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**Search Results - Record(s) 1 through 6 of 6 returned.**☐ 1. Document ID: US 20010054777 A1

L6: Entry 1 of 6

File: PGPB

Dec 27, 2001

PGPUB-DOCUMENT-NUMBER: 20010054777

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010054777 A1

TITLE: Materials having z-direction fibers and folds and method for producing same

PUBLICATION-DATE: December 27, 2001

## INVENTOR-INFORMATION:

| NAME                    | CITY       | STATE | COUNTRY | RULE-47 |
|-------------------------|------------|-------|---------|---------|
| White, Edward Jason     | Mauldin    | SC    | US      |         |
| Brown, Kurtis Lee       | Alpharetta | GA    | US      |         |
| Conrad, John Herbert    | Alpharetta | GA    | US      |         |
| Gerndt, Robert James    | Roswell    | GA    | US      |         |
| Maldonado, Jose Enrique | Alpharetta | GA    | US      |         |

US-CL-CURRENT: 264/103; 156/148, 156/176, 156/180, 264/171.1

## ABSTRACT:

A method for producing a material having z-direction ridges or folds in which a layer of continuous fibers is conveyed on a first moving surface into a nip formed by the first moving surface and a second moving surface which is traveling at a slower speed than the first moving surface, resulting in formation of a plurality of z-direction loops in the fibers giving loft to the material and a wave pattern producing ridges on both major surfaces of the resultant nonwoven web. The method permits easy real time adjustment of manufacturing parameters to produce a variety of materials. The method further produces lofty nonwovens at a commercially viable rate.

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|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|-----------|-------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |
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☐ 2. Document ID: US 6203654 B1

L6: Entry 2 of 6

File: USPT

Mar 20, 2001

US-PAT-NO: 6203654

DOCUMENT-IDENTIFIER: US 6203654 B1

TITLE: Method of making a slitted or particulate absorbent material

DATE-ISSUED: March 20, 2001

## INVENTOR-INFORMATION:

| NAME                    | CITY         | STATE | ZIP CODE | COUNTRY |
|-------------------------|--------------|-------|----------|---------|
| McFall; Ronald Ray      | West Chester | OH    |          |         |
| Lavon; Gary Dean        | West Chester | OH    |          |         |
| Kollner; Wilfried Maria | Cincinnati   | OH    |          |         |
| Noel; John Richard      | Cincinnati   | OH    |          |         |
| Hammons; John Lee       | Hamilton     | OH    |          |         |

US-CL-CURRENT: 156/268; 156/201, 156/202, 156/204, 156/216,  
156/227, 156/257, 156/270, 156/308.2, 156/308.4, 225/103, 225/97,  
604/378, 604/383, 604/385.01

## ABSTRACT:

A method of making a slitted or particulate absorbent material for an absorbent article such as sanitary napkins, diapers, incontinence devices, and the like. The method can be carried out in situ on another component of the absorbent article in a manufacturing process without cutting the other component. In one embodiment, the absorbent material is placed between two carrier webs, and a force is applied to the composite of the absorbent material and the carrier webs. The force breaks the absorbent material, but only deforms the carrier webs to provide a self-contained web of particulate material between two carrier webs.

28 Claims, 29 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
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| FIG. 1 | Draw Desc | Image |
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☐ 3. Document ID: US 5888607 A

L6: Entry 3 of 6

File: USPT

Mar 30, 1999

US-PAT-NO: 5888607

DOCUMENT-IDENTIFIER: US 5888607 A

TITLE: Soft loop laminate and method of making

DATE-ISSUED: March 30, 1999

## INVENTOR-INFORMATION:

| NAME            | CITY     | STATE | ZIP CODE | COUNTRY |
|-----------------|----------|-------|----------|---------|
| Seth; Jayshree  | Woodbury | MN    |          |         |
| Rogers; John J. | St. Paul | MN    |          |         |

US-CL-CURRENT: 428/92; 428/101, 428/95, 428/97, 428/99

## ABSTRACT:

There is provided a soft nonwoven fibrous loop material for use in hook and loop fastening systems. The nonwoven fibrous loop material of the invention contains an open fibrous loop layer comprised predominately of polypropylene polymer, copolymer or blend fibers. The nonwoven fibrous loop layer material is autogeneously bonded to a backing layer formed of polypropylene polymers or copolymers having a percent isotacticity of less than 70%, optionally with additional layers present provided so that the overall nonwoven fibrous loop material is a laminate having a circular bend stiffness of less than about 9 Newton and having tensile strength of at least 1500 g/2.54 cm-width.

40 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

428/92, 428/97

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
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☐ 4. Document ID: US 5364504 A

L6: Entry 4 of 6

File: USPT

Nov 15, 1994

US-PAT-NO: 5364504

DOCUMENT-IDENTIFIER: US 5364504 A

TITLE: Papermaking belt and method of making the same using a textured casting surface

DATE-ISSUED: November 15, 1994

## INVENTOR-INFORMATION:

| NAME               | CITY        | STATE | ZIP CODE | COUNTRY |
|--------------------|-------------|-------|----------|---------|
| Smurkoski; John A. | Meshoppen   | PA    |          |         |
| Leggitt; Gary L.   | Springville | PA    |          |         |
| Wilson; Gregory L. | Cincinnati  | OH    |          |         |

US-CL-CURRENT: 162/116; 162/111, 162/204

## ABSTRACT:

A backside textured papermaking belt is disclosed which is

comprised of a framework and a reinforcing structure. The framework has a first surface which defines the paper-contacting side of the belt, a second surface opposite the first surface, and conduits which extend between first and second surfaces of the belt. The first surface of the framework has a paper side network formed therein which defines the conduits. The second surface of the framework has a backside network with passageways that provide surface texture irregularities in the backside network. The papermaking belt is made by casting a photosensitive resinous material over and through the reinforcing structure while the reinforcing structure travels over a textured surface, and then exposing the photosensitive resinous material to light of an activating wavelength through a mask which has transparent and opaque regions. A process for making paper products is also disclosed which involves applying a fluid pressure differential from a vacuum source through the belt to a partially-formed embryonic web of papermaking fibers. The fibers in the embryonic web are deflected into the conduits of the papermaking belt by the vacuum pressure while the papermaking belt and the embryonic web travel over the vacuum source. Following the deflection, the paper web is impressed with the paper side network of the belt, and dried to form the final product.

2 Claims, 55 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 24

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|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|-------|-----------|-------|
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5. Document ID: US 5260171 A

L6: Entry 5 of 6

File: USPT

Nov 9, 1993

US-PAT-NO: 5260171

DOCUMENT-IDENTIFIER: US 5260171 A

TITLE: Papermaking belt and method of making the same using a textured casting surface

DATE-ISSUED: November 9, 1993

INVENTOR-INFORMATION:

| NAME               | CITY        | STATE | ZIP CODE | COUNTRY |
|--------------------|-------------|-------|----------|---------|
| Smurkoski; John A. | Meshoppen   | PA    |          |         |
| Leggitt; Gary L.   | Springville | PA    |          |         |
| Wilson; Gregory L. | Cincinnati  | OH    |          |         |

US-CL-CURRENT: 430/320; 162/116, 162/117, 162/348, 162/903, 428/152, 430/322

ABSTRACT:

A backside textured papermaking belt is disclosed which is

comprised of a framework and a reinforcing structure. The framework has a first surface which defines the paper-contacting side of the belt, a second surface opposite the first surface, and conduits which extend between first and second surfaces of the belt. The first surface of the framework has a paper side network formed therein which defines the conduits. The second surface of the framework has a backside network with passageways that provide surface texture irregularities in the backside network. The papermaking belt is made by casting a photosensitive resinous material over and through the reinforcing structure while the reinforcing structure travels over a textured surface, and then exposing the photosensitive resinous material to light of an activating wavelength through a mask which has transparent and opaque regions. A process for making paper products is also disclosed which involves applying a fluid pressure differential from a vacuum source through the belt to a partially-formed embryonic web of papermaking fibers. The fibers in the embryonic web are deflected into the conduits of the papermaking belt by the vacuum pressure while the papermaking belt and the embryonic web travel over the vacuum source. Following the deflection, the paper web is impressed with the paper side network of the belt, and dried to form the final product.

10 Claims, 55 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 24

|      |       |          |       |        |                |      |           |           |             |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|

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| KIMC | Draw Desc | Image |
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☐ 6. Document ID: US 5098522 A

L6: Entry 6 of 6

File: USPT

Mar 24, 1992

US-PAT-NO: 5098522

DOCUMENT-IDENTIFIER: US 5098522 A

TITLE: Papermaking belt and method of making the same using a textured casting surface

DATE-ISSUED: March 24, 1992

INVENTOR-INFORMATION:

| NAME               | CITY        | STATE | ZIP CODE | COUNTRY |
|--------------------|-------------|-------|----------|---------|
| Smurkoski; John A. | Meshooppen  | PA    |          |         |
| Leggitt; Gary L.   | Springville | PA    |          |         |
| Wilson; Gregory L. | Cincinnati  | OH    |          |         |

US-CL-CURRENT: 162/358.2; 162/348, 428/135, 428/138

ABSTRACT:

A backside textured papermaking belt is disclosed which is comprised of a framework and a reinforcing structure. The framework

## WEST Search History

DATE: Monday, March 25, 2002

### Set Name Query

side by side

### Hit Count Set Name

result set

*DB=USPT,PGPB; PLUR=YES; OP=ADJ*

|    |  |       |    |
|----|--|-------|----|
| L6 | l1 and l2 and l3 and l5                          | 6     | L6 |
| L5 | plurality same ridges and surfaces               | 16313 | L5 |
| L4 | L3   | 400   | L4 |
| L3 | z\$l direction same orientation                  | 400   | L3 |
| L2 | plurality and continuous same (fibers or fibres) | 18644 | L2 |
| L1 | (non\$l woven or un\$l woven) and web            | 14605 | L1 |

END OF SEARCH HISTORY